

**Project Overview** 

June 23, 2009

# HONOLULU RAIL TRANSIT



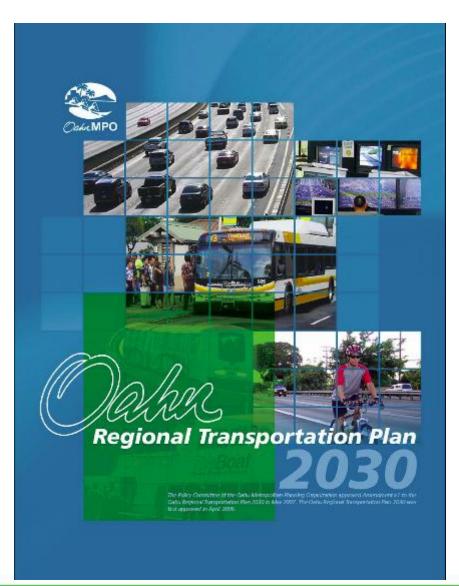


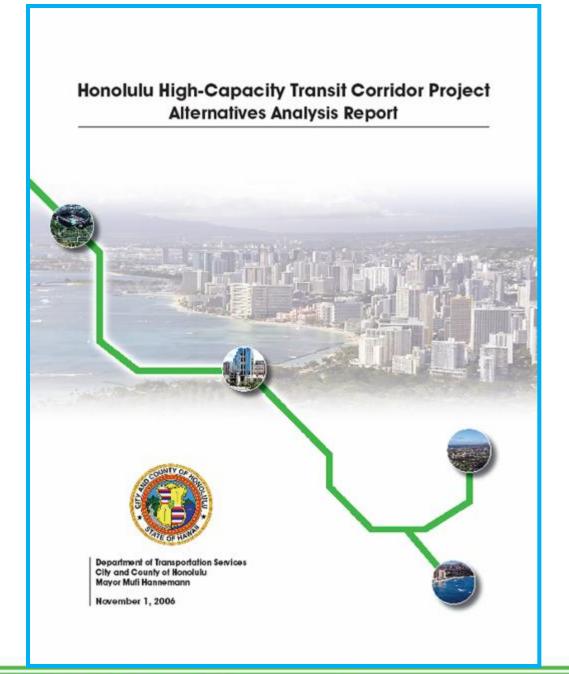
# Planning for the Future O'ahu in 2030

- 200,000 more residents than in 2005 (22% more people)
- 100,000 more jobs than in 2005 (21% more jobs)
- 750,000 more daily trips than in 2005 (27% more trips)

### **Multi-Modal Options to Improve Mobility**

- **Highway Capacity Expansion**
- Traffic Engineering **Improvements**
- Pedestrian and **Bicycle Projects**
- **Expansion of TheBus**
- Fixed Guideway **Project**







### Four Alternatives

- No Build
  - No Major Transit Improvements
- Transportation System Management
  - Expanded Bus Service
- Managed Lane
  - Buses on Managed Lanes
- Fixed Guideway
  - Alignment Options
    - Various Routes
    - Elevated, at-grade, underground



# City Council Selection **December 22, 2006**

 By a vote of 7 to 2 the City Council selected Fixed Guideway in an exclusive right-of-way

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### **Decisions Made**

- Choice of Mode
  - Fixed Guideway in Exclusive Right-of-Way
- Choice of Alignment
  - Initially East Kapolei to Ala Moana Center
  - Ultimately Kapolei to UH Mānoa and Waikīkī
- Choice of Vehicle Technology
  - Steel Wheel on Steel Rail "Light Metro"

# Why Not Surface Light Rail?

- Slower operating speed less than 20 mph vs. 30+ mph for elevated
- 36% higher O&M cost per passenger mile
- Reduces highway capacity
- More localized traffic congestion
- More property acquisitions and relocations
- Greater impacts to cultural/archeological resources



# Elevated Guideway Simulation





# Elevated Guideway Simulation



### What could it look like?









## What could it look like?









# Travel Times from Kapolei

Destination	Travel Time
Pearl Highlands	14 minutes
Airport	26 minutes
Kalihi	32 minutes
Downtown	38 minutes
Ala Moana Center	42 minutes

#### How much will it cost to build?

	Millions of 2008 Dollars
Estimated Construction Cost	2,100
Design / Construction Contingency	555
Construction Subtotal	2,655
Right-of-Way	150
Vehicles	295
Professional Services	795
Project Reserve	230
Capital Cost	4,125
Finance Charges	380
TOTAL COST	4,500

### Sources and Uses of Funds

	Millions of Inflated \$
GET Surcharge Revenues	4,050
FTA New Starts Funds	1,385
TOTAL REVENUE	5,435
Capital Cost	4,930
Finance Charges	505
TOTAL COST	5,435

# Operating & Maintenance Cost

 Rail operating & maintenance cost, after fares, will be about 2-3% of the City's annual operating budget, an amount that can be accommodated without an increase in taxes

 A bus + rail system costs less to run than carrying the same number of people on a bus-only system

# **Projected Economic Benefits**

Will create about 10,000 jobs a year in

Construction, support services, retail, and other industries



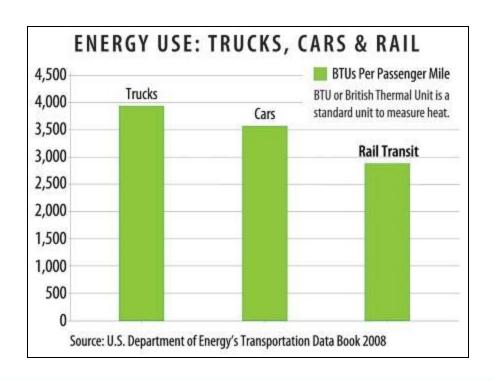
### **Traffic Benefits**

- Rail will reduce future traffic delay by over 20%
- Rail will remove more than 30,000 cars from our roads each day
- One 300-passenger train can take 200 vehicles off our roads



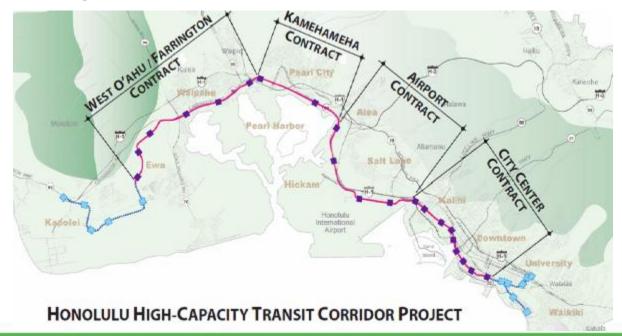
### **Environmental Benefits**

 Electrically powered trains use less energy per passenger mile than cars



# **Moving Forward**

- Late Summer 2009: Release of Final EIS
- Fall 2009: FTA issues Record of Decision
- Fall 2009: Award design/build contract for first phase



### What's Next...

- Spring 2011: Full funding grant agreement with the federal government
- Late 2012: Initial service in Waipahu
- Late 2018: Start full service between East Kapolei and Ala Moana